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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,150	07/28/2003	Ta-Yung Yang	JCLA11271	5985
7590 08/10/2004			EXAMINER	
J.C. Patents, Inc. Suite 250			BERHANE, ADOLF D	
4 Venture			ART UNIT	PAPER NUMBER
Irvine, CA 92	618		2838	
			DATE MAILED: 08/10/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/629,150	YANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Adolf Berhane	2838				
The MAILING DATE of this communicatio Period for Reply	n appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic  - If the period for reply specified above is less than thirty (30) days  - If NO period for reply is specified above, the maximum statutory p  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON.  FR 1.136(a). In no event, however, may a ron.  , a reply within the statutory minimum of third period will apply and will expire SIX (6) MON statute, cause the application to become AE	reply be timely filed  ty (30) days will be considered timely.  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is <b>FINAL</b> . 2b) ⊠	This action is non-final.					
3) Since this application is in condition for al	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D	o. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-7 is/are pending in the applica	tion.					
4a) Of the above claim(s) is/are wit	thdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 3</u> is/are rejected.						
7)⊠ Claim(s) <u>2 and 4-7</u> is/are objected to.						
8) Claim(s) are subject to restriction a	and/or election requirement.					
Application Papers						
9) The specification is objected to by the Exa	aminer.					
10) The drawing(s) filed on is/are: a)	] accepted or b)☐ objected to	by the Examiner.				
Applicant may not request that any objection t	to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the c	correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by t	he Examiner. Note the attached	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
<ol> <li>Certified copies of the priority docu</li> </ol>	ments have been received.					
<ol><li>Certified copies of the priority docu</li></ol>	ments have been received in A	pplication No				
3. Copies of the certified copies of the	e priority documents have been	received in this National Stage				
application from the International B	sureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for	a list of the certified copies not	received.				
Attachment(s)	_					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-94)</li> </ol>		Summary (PTO-413) s)/Mail Date				
Notice of Draitsperson's Patent Drawing Review (PTO-94     Information Disclosure Statement(s) (PTO-1449 or PTO/S	· - / — —	nformal Patent Application (PTO-152)				

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## **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Abdoulin (6,026,005).

Abdoulin discloses a single ended forward converter with synchronous rectification and delay circuit in phase locked loop in Figs. 8 and 9. A transformer with a primary and second winding XFRMR, a first MOSFET Q1, second MOSFET Q2, first resistor R1, second resistor R2 and controller IC2.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 1 and 3 are rejected under 35 U.S.C. 102(a) as being anticipated by Lin et al. (2003/0048648).

Lin et al. disclose a current sense and control of DC/DC converters in Fig. 2. A transformer with a primary and second winding T, a first MOSFET SR1, second ... MOSFET SR2, first resistor unlabelled between Vo1+ and Vo1-, second resistor unlabelled between Vo2+ and Vo2- and controller T1.

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5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 1 and 3 are rejected under 35 U.S.C. 102(e) as being anticipated by Pelkonen (6,671,193).

Pelkonen discloses a power source and arrangement for restricting the short circuit current or rectifier in Fig. 4. A transformer with a primary and second winding T1, a first MOSFET Q3, second MOSFET Q4, first resistor R7, second resistor R9 and controller CRTL.

#### Allowable Subject Matter

7. Claims 2 and 4-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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8. The following is a statement of reasons for the indication of allowable subject matter: None of the cited prior art teach or disclose a controller with three comparator and three current source with the claimed connection and a detection diode coupled between the positive terminal of the secondary winding and a detection input of the controller with a programmable timing resistor.

## Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lin et al. disclose a soft start for a synchronous rectifier in a power converter. Sun et al. disclose a clamping circuit and method for synchronous rectification.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adolf Berhane whose telephone number is 571-272-2077. The examiner can normally be reached on Monday- Friday 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

**Primary Examiner** 

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